



Report No. 12141
Date: 04/25/05

Fuel Reduction Pilot Program

CONDUCTED AT

ERIAL ELEMENTRY SCHOOL, ERIAL, N.J.

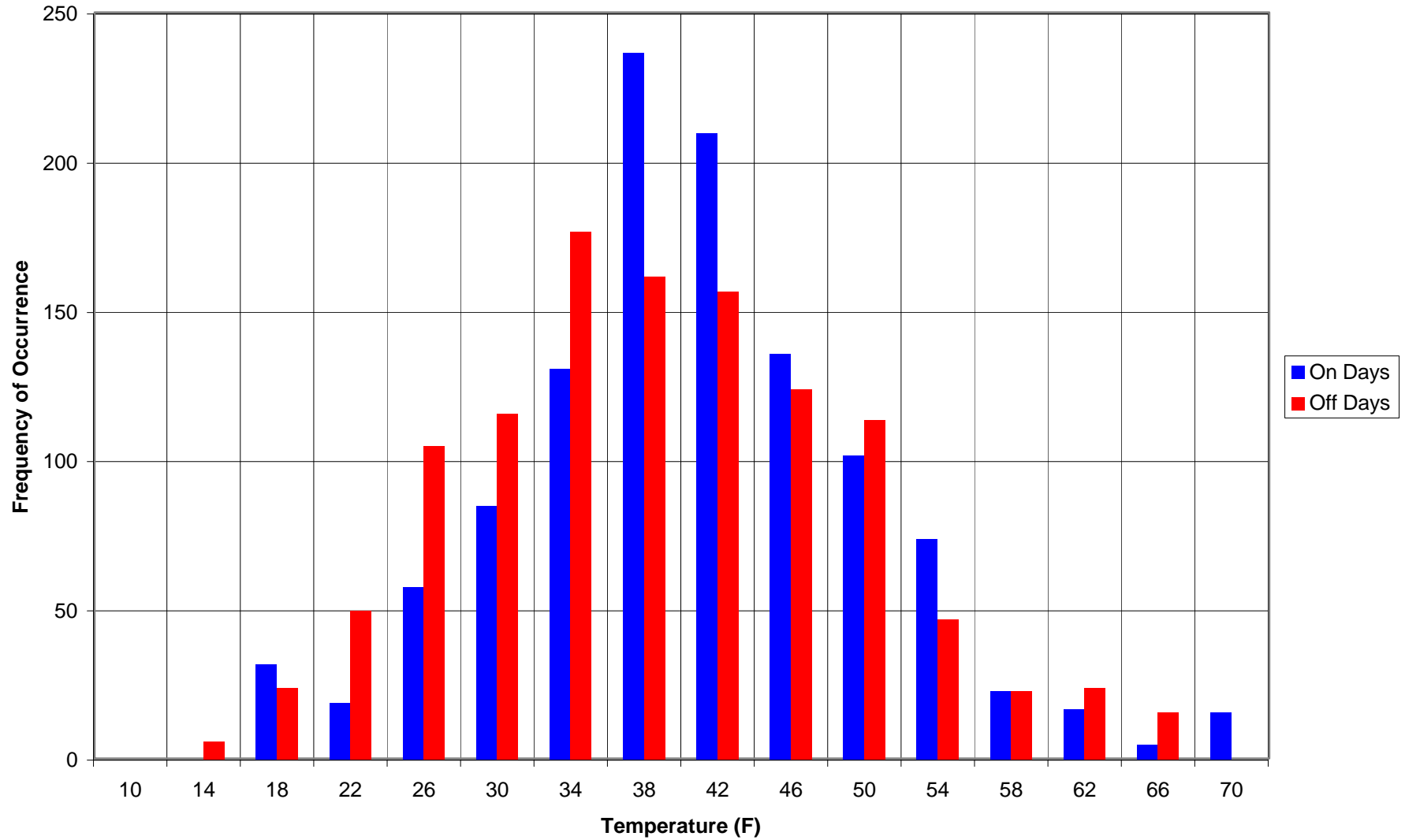
FOR

Allied Energy Systems

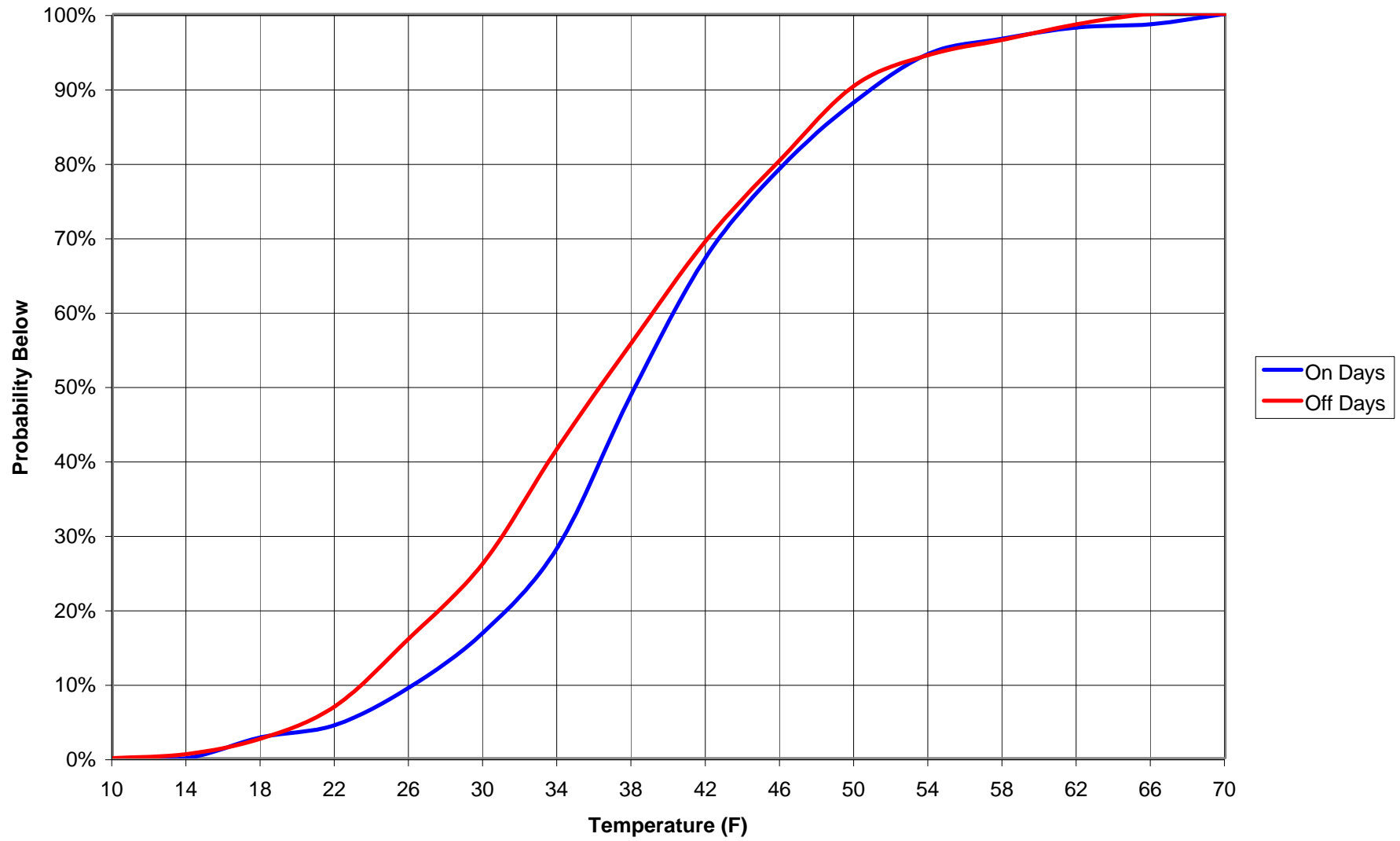
TEST RESULTS
FOR A
HOT-WATER BOILER

A Confidential Report
Prepared by
Intellidyne LLC

Outside Air Temp Histogram (3/04/05 -- 3/30/05)



OAT Temperature Probabilities (1/18/03 --2/22/03)





90 Pratt Oval
 Glen Cove, NY 11542
 Phone: 516-676-0777
 Fax: 516-676-2640

Test Report

Report No. 12141

Date: 04/25/05

Customer:

Allied Energy Systems
 634 E. Earl Avenue
 Somerdale, NJ 08083

Test Site Location:

Erial Elementry School
 Essex Road
 Erial, NJ

Test Type: HEATING AIR CONDITIONING REFRIGERATION OTHER: _____
 Product Tested: HW LCH LCS CHW CHS AC CAC RU OTHER: _____

Type of Equipment:

Manufacturer: H.B. Smith
 Model: 28A-10
 Fire Rate / Hr.: 1,939,000 BTU Input, Natural Gas

 Application: Hydronic Heating (No Domestic HW)
 Equip. Location / Area Served: New Wing Boiler Rm / New Wing

Test Start Date: 03/04/05
 Test End Date: 03/29/05
 No. of Days in Test: 26

BURNER RUN-TIME: in HRS. in MIN.
IntelliCon ON-DAYS: 30:58:19
IntelliCon OFF-DAYS: 36:46:11 RUN-TIME was reduced by: 15.77%

BURNER USAGE FACTOR:
IntelliCon On-Days: 10%
IntelliCon Off-Days: 12%

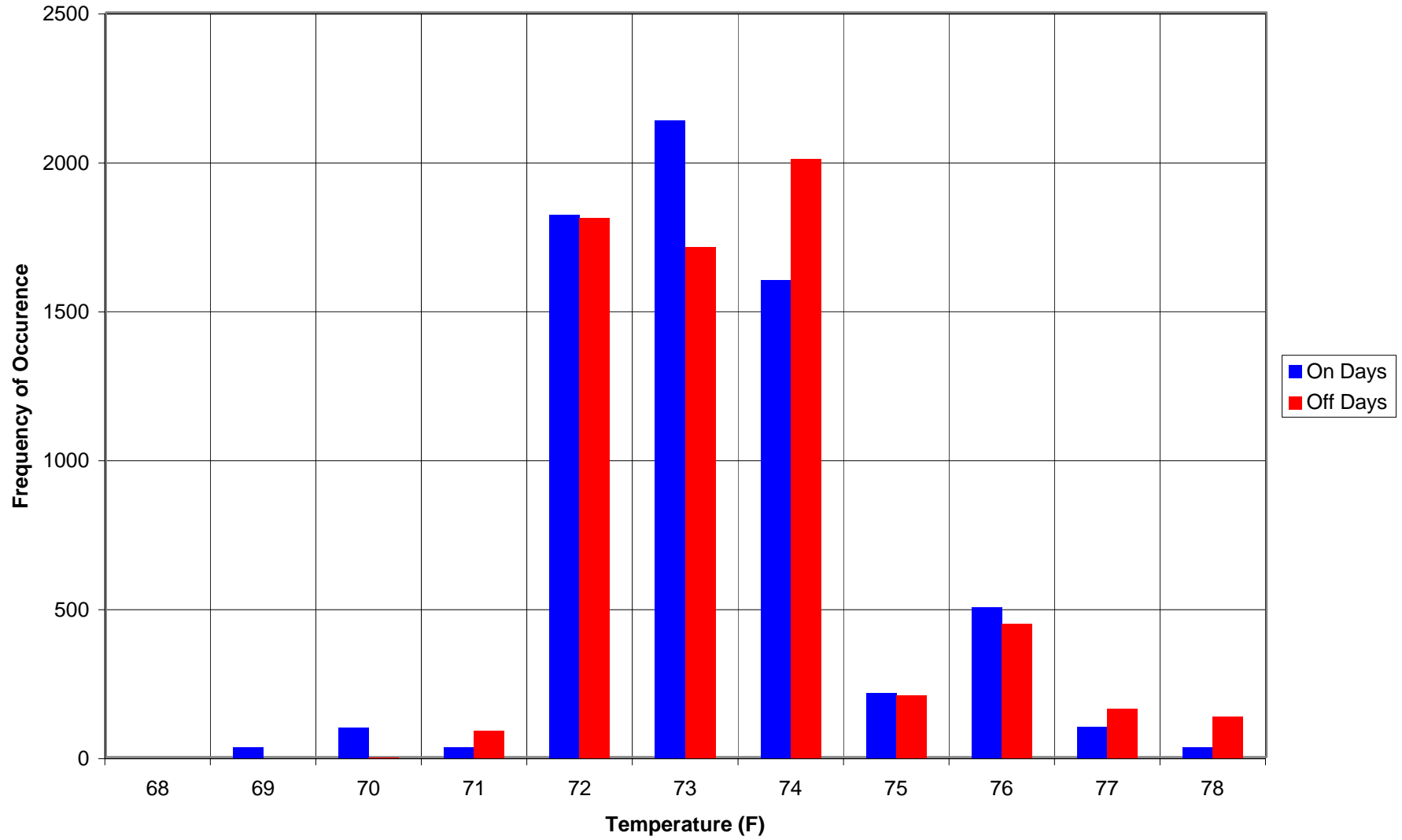
HEATING DEGREE-DAYS (FOR TEST PERIOD)
IntelliCon ON-DAYS: 296 It was 4.97% Warmer on the On-Days.
IntelliCon OFF-DAYS: 312
 Total Degree-Days: 608

BURNER CYCLING REDUCTION:
IntelliCon ON-DAYS: 161
IntelliCon OFF-DAYS: 255 Cycling was reduced by: 36.9%

Savings = 12.63%

COMMENTS: It was determined from the data that a 1% increase in Heating Degree-Days caused a 0.75% change in runtime on the baseline (Off-Days). As such, the On-Day runtimes were adjusted (increased by 4.97 x 0.75%= 2.24%) to compensate for the warmer days.

Space Temperature Histogram (3/04/05 -- 3/30/05)



Space Temperature Probabilities (3/04/05 -- 3/30/05)

